

# NORTON MAGNETIC HEADS

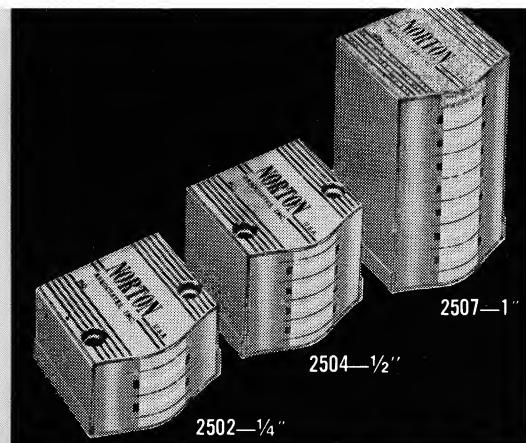
## SERIES 2500

### CROSSTALK — 60 DB

Track Width—.050 — Track Spacing—.140 ctoc

INDUCTANCE mh	MAXIMUM RATING AT 75°C ma rms	TYPICAL OPERATION				
		RECORD WITH BIAS			RECORD W/O BIAS	
		BIAS ma rms	RECORD ma rms	PLAYBACK 0 DB mv rms	RECORD ma pk to pk	PLAYBACK 0 DB mv pk to pk
4	20		4.0	.50	1.0	10.
15	10		2.0	.25		5.0
60	5		1.0	.12		2.5
250	2.5		.5	.06		1.3

NUMBER OF TRACKS	TAPE WIDTH	CATALOG NUMBER		
		SERIES	INDUCTANCE	FUNCTION
2	1/4"	2502		
3	1/2"	2503		
4		2504		
7	1"	2507		



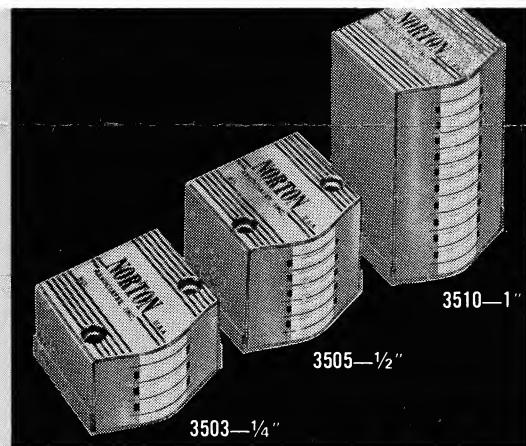
## SERIES 3500

### CROSSTALK — 60 DB

Track Width—.040 — Track Spacing—.100 ctoc

INDUCTANCE mh	MAXIMUM RATING AT 75°C ma rms	TYPICAL OPERATION				
		RECORD WITH BIAS			RECORD W/O BIAS	
		BIAS ma rms	RECORD ma rms	PLAYBACK 0 DB mv rms	RECORD ma pk to pk	PLAYBACK 0 DB mv pk to pk
4	20		3.5	.45	0.9	9.0
15	10		1.7	.22		4.5
60	5		.9	.11		2.3
250	2.5		.45	.06		1.2

NUMBER OF TRACKS	TAPE WIDTH	CATALOG NUMBER		
		SERIES	INDUCTANCE	FUNCTION
3	1/4"	3503		
5	1/2"	3505		
10	1"	3510		



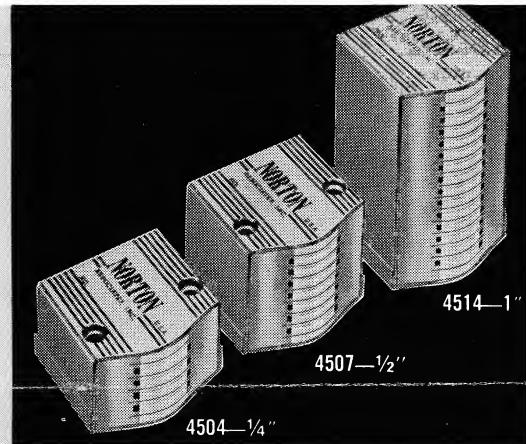
## SERIES 4500

### CROSSTALK — 50 DB

Track Width—.032 — Track Spacing—.070 ctoc

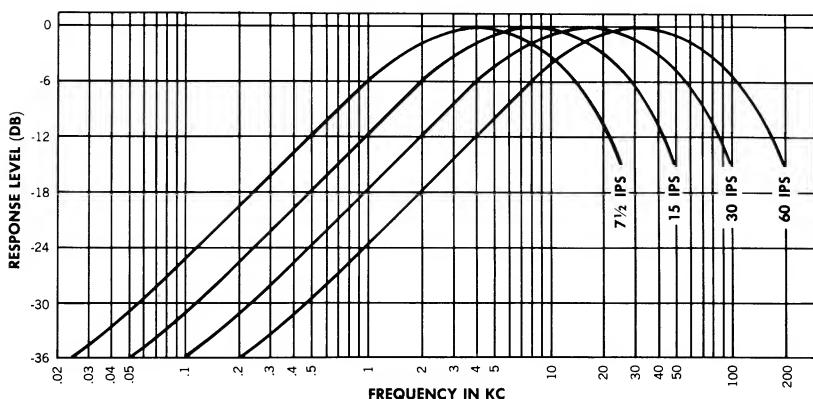
INDUCTANCE mh	MAXIMUM RATING AT 75°C ma rms	TYPICAL OPERATION				
		RECORD WITH BIAS			RECORD W/O BIAS	
		BIAS ma rms	RECORD ma rms	PLAYBACK 0 DB mv rms	RECORD ma pk to pk	PLAYBACK 0 DB mv pk to pk
4	16		3.0	.4	0.8	8.0
15	8		1.5	.2		4.0
60	4		.8	.1		2.0
250	2		.4	.05		1.0

NUMBER OF TRACKS	TAPE WIDTH	CATALOG NUMBER		
		SERIES	INDUCTANCE	FUNCTION
4	1/4"	4504		
7	1/2"	4507		
14	1"	4514		



### RESPONSE/FREQUENCY CHARACTERISTIC, FREQUENCY RANGE & LEVEL DATA

Unequalized playback, constant current recording vs tape speed and impedance.

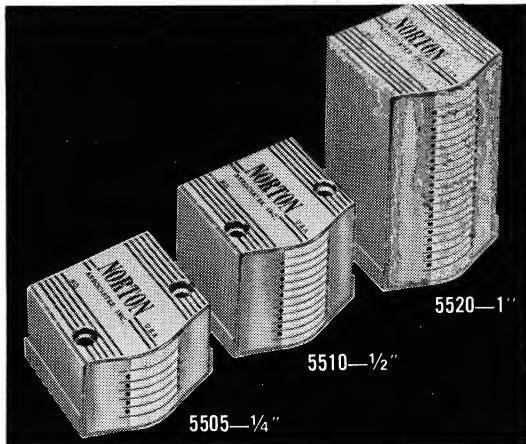


Inductance mh	Impedance @ 1 KC K	Recommended Max. Freq. KC	Response Level (DB) At Other Tape Speeds (IPS)			
			7 1/2	15	30	60
4	.03	400	-18	-12	-6	0*
15	.1	200	-12	-6	0*	+6
60	.4	100	-6	0*	+6	+12
250	1.6	60	0*	+6	+12	+18

\*shown on chart (on 3M 459 tape or equal)

The Response/Frequency Characteristic shown, together with the record and play data specified for each Series above illustrates the exceptional performance capabilities of these miniature high performance magnetic heads. High output at short wave lengths together with a maximum contour effect deviation of  $\pm 2$  DB from the 6 DB/octave slope at long wave lengths provides a useful bandwidth of over 6 octaves at any tape speed.

## SERIES 5500



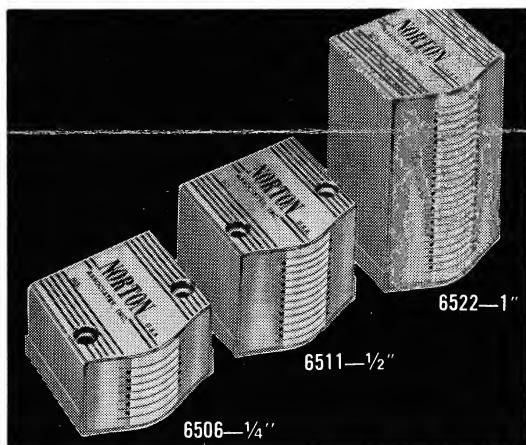
### CROSSTALK — 40 DB

Track Width—.025 — Track Spacing—.050 ctoc

INDUCTANCE mh	MAXIMUM RATING AT 75°C ma rms	TYPICAL OPERATION			
		RECORD WITH BIAS			RECORD W/O BIAS
		BIAS ma rms	RECORD ma rms	PLAYBACK 0 DB mv rms	RECORD ma pk to pk
4	14	2.8	.35		7.0
15	7	1.4	.18		3.5
60	3.5	.7	.09	0.7	1.8
250	2	.35	.045		.9

NUMBER OF TRACKS	TAPE WIDTH	CATALOG NUMBER		
		SERIES	INDUCTANCE	FUNCTION
5	1/4"	5505	4, 15, 60 or 250	R, R/P or P
10	1/2"	5510		
20	1"	5520		

## SERIES 6500



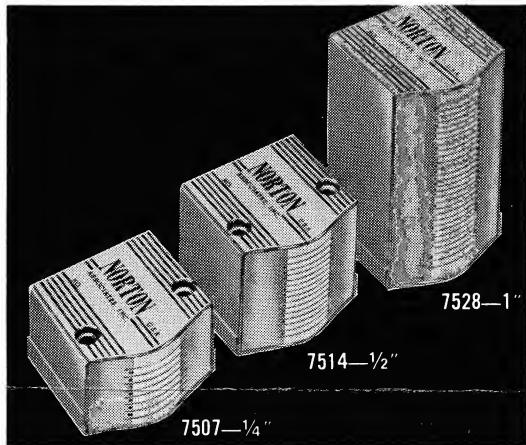
### CROSSTALK — 40 DB

Track Width—.018 — Track Spacing—.045 ctoc

INDUCTANCE mh	MAXIMUM RATING AT 75°C ma rms	TYPICAL OPERATION			
		RECORD WITH BIAS			RECORD W/O BIAS
		BIAS ma rms	RECORD ma rms	PLAYBACK 0 DB mv rms	RECORD ma pk to pk
4	12	2.5	.30		6.0
15	6	1.2	.15		3.0
60	3	.6	.08	0.6	1.5
250	2	.3	.04		.8

NUMBER OF TRACKS	TAPE WIDTH	CATALOG NUMBER		
		SERIES	INDUCTANCE	FUNCTION
6	1/4"	6506	4, 15, 60 or 250	R, R/P or P
11	1/2"	6511		
22	1"	6522		

## SERIES 7500



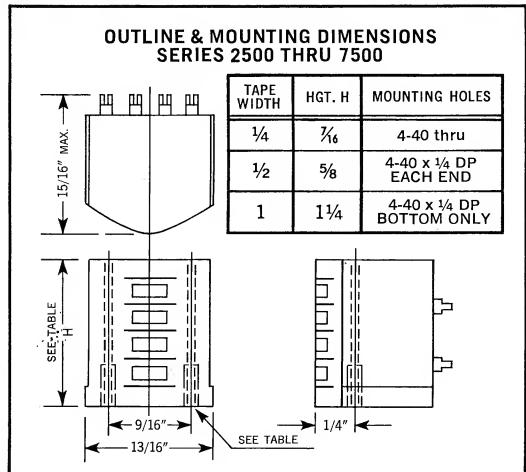
### CROSSTALK — 40 DB

Track Width—.012 — Track Spacing—.038 ctoc  
7507 — .038 ctoc  
7514, 7528 — .036 ctoc

INDUCTANCE mh	MAXIMUM RATING AT 75°C ma rms	TYPICAL OPERATION			
		RECORD WITH BIAS			RECORD W/O BIAS
		BIAS ma rms	RECORD ma rms	PLAYBACK 0 DB mv rms	RECORD ma pk to pk
4	10	2.0	.25		5.0
15	5	1.0	.12		2.5
60	2.5	.5	.06	0.5	1.2
250	1.5	.25	.03		.6

NUMBER OF TRACKS	TAPE WIDTH	CATALOG NUMBER		
		SERIES	INDUCTANCE	FUNCTION
7	1/4"	7507	4, 15, 60 or 250	R, R/P or P
14	1/2"	7514		
28	1"	7528		

### OUTLINE & MOUNTING DIMENSIONS SERIES 2500 THRU 7500



**STANDARD FEATURES** include extremely low crosstalk ratings and +75°C temperature operation without derating. Rugged solid metal construction, shock and vibration resistant, provides a hard, stable, low friction, long wear surface for the tape. The cores, shields and all metallic members are mechanically and electrically bonded together for effective electrostatic shielding and grounding of static charges. Precision finishing of the recording face to micro-inch tolerance insures intimate contact of the tape with every channel for uniformly excellent response independent of track location. The rear terminal board carries two terminals per track.

To specify the complete catalog number for ordering purposes designate the Series number of the head you require, the inductance in mh and the function ie. Record only, Record/Play, or Play only, as in the following example: Catalog #4507-15P which is the Series 4500, 7 track, 15mh Play Head for 1/2" tape.

— **NORTON ASSOCIATES, INC.** —  
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